Resume of Yuchen Hu

Basic Information

School :	School of Life and Health Sciences
Gender：	Female
Date of Birth：	199401
Title：	Lecturer
Education：	Ph.D of Chemical Engineering and Technology
Tutor：	Master degree
Interest of research:	Synthesis and application of functional peptides; development of peptide macrocyclization methodology

Academic Background

From September 2012 to June 2016, Sichuan University, Bachelor's degree in Pharmacy;
From September 2016 to June 2022, Chongqing University, Ph.D of Chemical Engineering and Technology.

Enrollment Information

1. Enrollment Discipline: Pharmacy, Master of Pharmacy
2. Research direction: Synthesis and application of functional peptides; development of peptide macrocyclization methodology

Representative Projects

1. The Youth Project of National Natural Science Foundation of China (Grant No. 32301057) " Data driven guided studies on the design, synthesis and bioactivity of non-hemolytic amphipathic α-helix antimicrobial peptides", Project leader.
2. The National Natural Science Foundation of China (Grant No. 22077013) " Development of New Synthetic Approach of Azapeptides and Its Application in Bioactive Azapeptidomimetics ".
3. Chongqing Jiangjin District Science and Technology Project (Grant No. Y2022072).
4. Hubei University of Technology Doctoral Initiation Program, (Grant No. XJ2022004101) " Mining Novel Antimicrobial Peptide Backbone Structures Based on Machine Learning and Secondary Metabolite Prediction", Project leader.

Representative Articles

1. **Hu Y,** Li H, Qu R, He T, Tang X, Chen W, Li L, Bai H, Li C, Wang W, Fu G, Luo G, Xia X, Zhang J. Lysine Stapling Screening Provides Stable and Low Toxic Cationic Antimicrobial Peptides Combating Multidrug-Resistant Bacteria In Vitro and In Vivo. Journal of Medicinal Chemistry, 2022, 65(1): 579-591.

2. **Hu Y**, Fan Y, Chen B, Li H, Zhang G & Su J. Stimulus-responsive Peptide Hydrogels: A Safe and Least Invasive Administration Approach for Tumor Treatment. Journal of Drug Targeting, 2023, 31(7), 745-761.
3. Su J, Zhang Y, LuY, Chen X, **Hu Y**. Novel Psoriasis Treatment: Development and Evaluation of a Thermo-Sensitive Pro-Penetrating Hydrogel Based on *Coptis chinensis* and *Phellodendron amurense*. Revista Brasileira de Farmacognosia, 2023, 33, 1187–1198.
4. Li H, **Hu Y**, Pu Q, He T, Zhang Q, Wu W, Xia X, Zhang J. Novel Stapling by Lysine Tethering Provides Stable and Low Hemolytic Cationic Antimicrobial Peptides. Journal of Medicinal Chemistry, 2020, 63(8): 4081-4089.
5. He T, Xu L, **Hu Y**, Tang X, Qu R, Zhao X, Bai H, Li L, Chen W, Luo G, Fu G, Wang W, Xia X, Zhang J. Lysine-Tethered Stable Bicyclic Cationic Antimicrobial Peptide Combats Bacterial Infection in Vivo. Journal of Medicinal Chemistry, 2022, 65(15): 10523–10533.
6. Fan Y, Wu W, Luo T, **Hu Y**, Zhang Q, Zhang J, Xia X. Cross-Linking of S-Nitrosothiolated AIEgens Inside Cancer Cells to Monitor NO Release and Reverse Chemo-Resistance. Chemical Communications, 2021, 57(93): 12520-12523.